EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6084966".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:56
L2	8	("3978288" | "4214206" | "5148485" | "5321753" | "5335280" | "5412730" | "5535239" | "5706346").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 13:58
L3	0	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (buad adj rate)) and "380".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 14:13
L4	0	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (buad adj rate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 14:13
L5	1	@ad<"20030131" and ((adjust$3 choos$3 select$3 designat$3) near4 (buad adj rate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 14:13
L8	84	375/138.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:45
L9	507	375/239.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:42
L10	333	375/247.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:46
L11	146	370/213.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:46
L12	297	370/294.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:46
L13	9	370/915.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:46
L14	0	((KHALIL) near2 (JIRAKI)).INV.	USPAT	OR	ON	2007/06/18 16:55

EAST Search History

L15	1	((KHALIL) near2 (JIRAKI)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 16:55
L16	85	timary	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 16:56
L17	1	timary and encrypt$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 16:56
S1	1	"20040174994".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 16:40
S2	102	380/261.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:10
S3	146	380/274.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:10
S4	99	380/35.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:10
S5	146	380/36.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:10
S6	571	380/37.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:10
S7	1388	380/28.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:11
S8	330	380/42.ccls.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:11
S9	2428	S2 S3 S5 S6 S7 S8 S4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:11
S10	795	S9 not S7 not S8	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:12

EAST Search History

S11	312	S10 and synchroniz$6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:13
S12	109	S10 and synchroniz$6 and (key with (time delay))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 08:51
S13	1	"5757912".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 09:09
S18	18	S4 and (synchroniz$6) and (delay$3 near3 (interval period))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 13:08
S19	1	"5101432".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 11:53
S20	27	("2411683" | "3337803" | "3662115" | "3970791" | "4068094" | "4107470" | "4160123" | "4179657" | "4184117" | "4221431" | "4221931" | "4247942" | "4340875" | "4359736" | "4393276" | "4454590" | "4525844" | "4575754" | "4649549" | "4667298" | "4688251" | "4726064" | "4799257" | "4809274" | "4827507"). PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/15 11:55
S21	6	("5101432").URPN.	USPAT	OR	ON	2007/06/15 12:03
S22	11	S7 and (synchroniz$6) and (delay$3 near3 (interval period schedule))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 13:09
S23	52	S9 and (synchroniz$6) and (delay$3 near3 (interval period schedule))	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 13:09
S24	34	S9 and (synchroniz$6) and (delay$3 near3 (interval period schedule)) not S18	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 14:02
S25	15	S9 and (synchroniz$6) and (random near3 delay$3) not S18	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 14:02
S26	22	S9 and (synchroniz$6) and (random$9 near3 delay$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 14:09
S27	103	("380".clas. "713".clas. "726".clas.) and @ad<"20030131" and (synchroniz$6) and (random$9 near3 delay$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 14:47
S28	2	@ad<"20030131" and Kiesler.in. and frequency	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 14:55
S33	50	@ad<"20030131" and (character adj skip)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:39

EAST Search History

S34	0	@ad<"20030131" and (character adj skip) and "380".clas.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:42
S35	2	"2,292,387".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:39
S36	20395	@ad<"20030131" and (tdma)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:44
S37	146	@ad<"20030131" and (tdma) and stream and "380".clas.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:45
S38	138	@ad<"20030131" and (tdma) and stream and "380".clas. and (bit byte)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/15 15:45
S39	1	"20040174994".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 13:33
S40	1	S39 and (user near choos$3)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 09:27
S41	1	S39 and (beginning)	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2007/06/18 10:11
S57	251	telegraph and morse and (bit byte)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 10:33
S58	217	(morse adj code) and (bit byte) and encrypt$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 10:34
S59	181	@ad<"20030131" and (morse adj code) and (bit byte) and encrypt$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 10:35
S60	119	@ad<"20030131" and (morse adj code) and (bit byte) and encrypt$3 not hoffman.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 10:41

EAST Search History

S61	17	@ad<"20030131" and ((encrypt$3 encipher$3 encod$3) near3 key) and (((hop$5) adj (sequence schedul$3 time)) near4 key)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 11:56
S62	519	@ad<"20030131" and (time adj hopping)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 11:56
S63	33	@ad<"20030131" and (time adj hopping) and "380".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 12:04
S64	1928	@ad<"20030131" and (pulse adj position adj modulat$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 12:04
S65	567	@ad<"20030131" and ((pulse adj position adj modulat$3) (time adj hop$4)) same (encrypt$3 encipher$3 encod$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 12:05
S66	18	@ad<"20030131" and ((pulse adj position adj modulat$3) (time adj hop$4)) same (encrypt$3 encipher$3 encod$3) and ("713". clas. "380".clas. "726".clas.)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:04
S67	97	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (bit adj rate))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:05
S68	0	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (bit adj rate)) and "380".ccor.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:05
S69	0	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (bit adj rate)) and "380/$".ccor.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:05

EAST Search History

S70	4	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (bit adj rate)) and "380".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:07
S71	0	@ad<"20030131" and (user near3 (adjust$3 choos$3 select$3 designat$3) near4 (transmission adj rate)) and "380".clas.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 14:10
S72	0	@ad<"20030131" and (password near4 ((hop$4) adj (pattern code sequence schedule)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:09
S73	0	@ad<"20030131" and (password near4 ((hop$4) adj2 (pattern code sequence schedule)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/18 13:56

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Dorothy E. Denning, Dennis K. Branstad

March 1996 **Communications of the ACM**, Volume 39 Issue 3

Publisher: ACM Press

Full text available: pdf(548.67 KB) Additional Information: full citation, citings, index terms, review

2 IP Easy-pass: a light-weight network-edge resource access control

Haining Wang, Abhijit Bose, Mohamed El-Gendy, Kang G. Shin

December 2005 **IEEE/ACM Transactions on Networking (TON)**, Volume 13 Issue 6

Publisher: IEEE Press

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Providing real-time communication services to multimedia applications and subscription-based Internet access often requires that sufficient network resources be reserved for real-time traffic. However, the reserved network resource is susceptible to resource theft and abuse. Without a resource access control mechanism that can efficiently differentiate legitimate real-time traffic from attacking packets, the traffic conditioning and policing enforced at Internet Service Provider (ISP) edge route ...

Keywords: network QoS, resource access control

3 Applied cryptography I: Forward-secure signatures with untrusted update

Xavier Boyen, Hovav Shacham, Emily Shen, Brent Waters

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Publisher: ACM Press

Full text available: pdf(261.19 KB) Additional Information: full citation, abstract, references, index terms

In most forward-secure signature constructions, a program that updates a user's private signing key must have full access to the private key. Unfortunately, these schemes are incompatible with several security architectures including Gnu Privacy Guard (GPG) and S/MIME, where the private key is encrypted under a user password as a "second factor" of security, in case the private key storage is corrupted, but the password is not.We introduce the concept of forward-secure signatures with untrusted ...

Keywords: digital signatures, forward security, two-factor authentication, untrusted storage

4 A survey of key management for secure group communication
Sandro Rafaeli, David Hutchison
September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(346.27 KB) Additional Information: full citation, abstract, references, citings, index terms

Group communication can benefit from IP multicast to achieve scalable exchange of messages. However, there is a challenge of effectively controlling access to the transmitted data. IP multicast by itself does not provide any mechanisms for preventing nongroup members to have access to the group communication. Although encryption can be used to protect messages exchanged among group members, distributing the cryptographic keys becomes an issue. Researchers have proposed several different approach ...

Keywords: Group Key Distribution, Multicast Security

5 Strength of two data encryption standard implementations under timing attacks
Alejandro Hevia, Marcos Kiwi
November 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 4
Publisher: ACM Press
Full text available: pdf(183.73 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We study the vulnerability of two implementations of the Data Encryption Standard (DES) cryptosystem under a timing attack. A timing attack is a method, recently proposed by Paul Kocher, that is designed to break cryptographic systems. It exploits the engineering aspects involved in the implementation of cryptosystems and might succeed even against cryptosys-tems that remain impervious to sophisticated cryptanalytic techniques. A timing attack is, essentially, a way of obtaining some users ...

Keywords: cryptanalysis, cryptography, data encryption standard, timing attack

6 Information protection methods: Display-only file server: a solution against information theft due to insider attack
Yang Yu, Tzi-cker Chiueh
October 2004 **Proceedings of the 4th ACM workshop on Digital rights management DRM '04**
Publisher: ACM Press
Full text available: pdf(311.80 KB) Additional Information: full citation, abstract, references, index terms

Insider attack is one of the most serious cybersecurity threats to corporate America. Among all insider threats, information theft is considered the most damaging in terms of potential financial loss. Moreover, it is also especially difficult to detect and prevent, because in many cases the attacker has the proper authority to access the stolen information. According to the 2003 CSI/FBI Computer Crime and Security Survey, theft of proprietary information was the single largest category of los ...

Keywords: access, digital rights management, information theft, insider attack

7 Power modeling and optimization for embedded systems: Analyzing the energy consumption of security protocols
Nachiketh R. Potlapally, Srivaths Ravi, Anand Raghunathan, Niraj K. Jha
August 2003 **Proceedings of the 2003 international symposium on Low power electronics and design ISLPED '03**
Publisher: ACM Press
Full text available: pdf(271.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Security is critical to a wide range of wireless data applications and services. While several security mechanisms and protocols have been developed in the context of the wired Internet, many new challenges arise due to the unique characteristics of battery powered embedded systems. In this work, we focus on an important constraint of such devices -- battery life -- and examine how it is impacted by the use of security protocols.We present a comprehensive analysis of the energy requirements of a ...

Keywords: 3DES, AES, DES, DSA, Diffie-Hellman, ECC, RSA, SSL, cryptographic algorithms, embedded system, energy analysis, handheld, low-power, security, security protocols

8 Encryption-based protection for interactive user/computer communication
Stephen Thomas Kent
September 1977 **Proceedings of the fifth symposium on Data communications SIGCOMM '77**
Publisher: ACM Press
Full text available: pdf(846.33 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper develops a virtual connection model, complete with intruder, for interactive terminal-host communication and presents a set of protection goals that characterize the security that can be provided for a physically unsecured connection. Fundamental requirements for protocols that achieve these goals and the role of encryption in the design of such protocols are examined. Functional and security constraints on positioning of protection protocols in a communication system and the imp ...

9 Masking the Energy Behavior of DES Encryption
H. Saputra, N. Vijaykrishnan, M. Kandemir, M. J. Irwin, R. Brooks, S. Kim, W. Zhang
March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**
Publisher: IEEE Computer Society
Full text available: pdf(264.41 KB) Publisher Site Additional Information: full citation, abstract, citings, index terms

Smart cards are vulnerable to both invasive and non-invasive attacks. Specifically, non-invasive attacks using power and timing measurements to extract the cryptographic key has drawn a lot of negative publicity for smart card usage. The power measurement techniques rely on the data-dependent energy behavior of the underlying system. Further, power analysis can be used to identify the specific portions of the program being executed to induce timing glitches that may in turn help to bypass key ch ...

10 Information flow: IP covert timing channels: design and detection
Serdar Cabuk, Carla E. Brodley, Clay Shields
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**
Publisher: ACM Press

Full text available: pdf(571.58 KB) Additional Information: full citation, abstract, references, index terms

A network covert channel is a mechanism that can be used to leak information across a network in violation of a security policy and in a manner that can be difficult to detect. In this paper, we describe our implementation of a covert network timing channel, discuss the subtle issues that arose in its design, and present performance data for the channel. We then use our implementation as the basis for our experiments in its detection. We show that the regularity of a timing channel can be use ...

Keywords: TCP/IP, covert timing channels, detection, network covert channels

11 Broadcast authentication and key management: Seven cardinal properties of sensor network broadcast authentication
Mark Luk, Adrian Perrig, Bram Whillock
October 2006 **Proceedings of the fourth ACM workshop on Security of ad hoc and sensor networks SASN '06**
Publisher: ACM Press
Full text available: pdf(155.99 KB) Additional Information: full citation, abstract, references, index terms

We investigate the design space of sensor network broadcast authentication. We show that prior approaches can be organized based on a taxonomy of seven fundamental proprieties, such that each approach can satisfy at most six of the seven proprieties. An empirical study of the design space reveals possibilities of new approaches, which we present in the following two new authentication protocols: RPT and LEA. Based on this taxonomy, we offer guidance in selecting the most appropriate protocol bas ...

Keywords: broadcast authentication, sensor network, taxonomy

12 Data privacy: Private collaborative forecasting and benchmarking
Mikhail Atallah, Marina Bykova, Jiangtao Li, Keith Frikken, Mercan Topkara
October 2004 **Proceedings of the 2004 ACM workshop on Privacy in the electronic society WPES '04**
Publisher: ACM Press
Full text available: pdf(217.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Suppose a number of hospitals in a geographic area want to learn how their own heart-surgery unit is doing compared with the others in terms of mortality rates, subsequent complications, or any other quality metric. Similarly, a number of small businesses might want to use their recent point-of-sales data to cooperatively forecast future demand and thus make more informed decisions about inventory, capacity, employment, etc. These are simple examples of cooperative benchmarking and (respectiv ...

Keywords: benchmarking, e-commerce, forecasting, privacy, secure multi-party computation, secure protocol

13 Security Mechanisms in High-Level Network Protocols
Victor L. Voydock, Stephen T. Kent
June 1983 **ACM Computing Surveys (CSUR)**, Volume 15 Issue 2
Publisher: ACM Press
Full text available: pdf(3.23 MB) Additional Information: full citation, references, citings

14 Network Protocols
Andrew S. Tanenbaum
December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4
Publisher: ACM Press
Full text available: pdf(3.37 MB) Additional Information: full citation, references, citings, index terms

15 SPINS: security protocols for sensor networks
Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler
September 2002 **Wireless Networks**, Volume 8 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(213.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless sensor networks will be widely deployed in the near future. While much research has focused on making these networks feasible and useful, security has received little attention. We present a suite of security protocols optimized for sensor networks: SPINS. SPINS has two secure building blocks: SNEP and μTESLA. SNEP includes: data confidentiality, two-party data authentication, and evidence of data freshness. μTESLA provides authenticated broadcast for severely resource-constrained ...

Keywords: MANET, authentication of wireless communication, cryptography, mobile ad hoc networks, secrecy and confidentiality, secure communication protocols, sensor networks

16 The relational model for database management: version 2
E. F. Codd
January 1990 Book
Publisher: Addison-Wesley Longman Publishing Co., Inc.
Full text available: pdf(28.61 MB) Additional Information: full citation, abstract, references, citings, index terms, review

From the Preface (See Front Matter for full Preface)

An important adjunct to precision is a sound theoretical foundation. The relational model is solidly based on two parts of mathematics: firstorder predicate logic and the theory of relations. This book, however, does not dwell on the theoretical foundations, but rather on all the features of the relational model that I now perceive as important for database users, and therefore for DBMS vendors. My perceptions result from 20 y ...

17 SPINS: security protocols for sensor netowrks
Adrian Perrig, Robert Szewczyk, Victor Wen, David Culler, J. D. Tygar
July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking MobiCom '01**
Publisher: ACM Press
Full text available: pdf(242.17 KB) Additional Information: full citation, abstract, references, citings, index terms

As sensor networks edge closer towards wide-spread deployment, security issues become a central concern. So far, much research has focused on making sensor networks feasible and useful, and has not concentrated on security.

We present a suite of security building blocks optimized for resource-constrained environments and wireless communication. SPINS has two secure building blocks: SNEP and &mgr;TESLA SNEP provides the following important baseline security primitives: Data

confidentia ...

18 How to play ANY mental game
O. Goldreich, S. Micali, A. Wigderson
January 1987 **Proceedings of the nineteenth annual ACM conference on Theory of computing STOC '87**
Publisher: ACM Press

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references, citings, index terms

We present a polynomial-time algorithm that, given as a input the description of a game with incomplete information and any number of players, produces a protocol for playing the game that leaks no partial information, provided the majority of the players is honest. Our algorithm automatically solves all the multi-party protocol problems addressed in complexity-based cryptography during the last 10 years. It actually is a completeness theorem for ...

19 Wireless network security II: Balancing auditability and privacy in vehicular networks
Jong Youl Choi, Markus Jakobsson, Susanne Wetzel
October 2005 **Proceedings of the 1st ACM international workshop on Quality of service & security in wireless and mobile networks Q2SWinet '05**
Publisher: ACM Press

Full text available: pdf(186.32 KB) Additional Information: full citation, abstract, references, index terms

We investigate how to obtain a balance between privacy and audit requirements in vehicular networks. Challenging the current trend of relying on asymmetric primitives within VANETs, our investigation is a feasibility study of the use of symmetric primitives, resulting in some efficiency improvements of potential value. More specifically, we develop a realistic trust model, and an architecture that supports our solution. In order to ascertain that most users will not find it meaningful to disconn ...

Keywords: audit, incentive, light-weight, privacy, symmetric

20 Using encryption for authentication in large networks of computers
Roger M. Needham, Michael D. Schroeder
December 1978 **Communications of the ACM**, Volume 21 Issue 12
Publisher: ACM Press

Full text available: pdf(755.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Use of encryption to achieve authenticated communication in computer networks is discussed. Example protocols are presented for the establishment of authenticated connections, for the management of authenticated mail, and for signature verification and document integrity guarantee. Both conventional and public-key encryption algorithms are considered as the basis for protocols.

Keywords: authentication, data encryption standard, encryption, networks, protocols, public-key cryptosystems, security

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